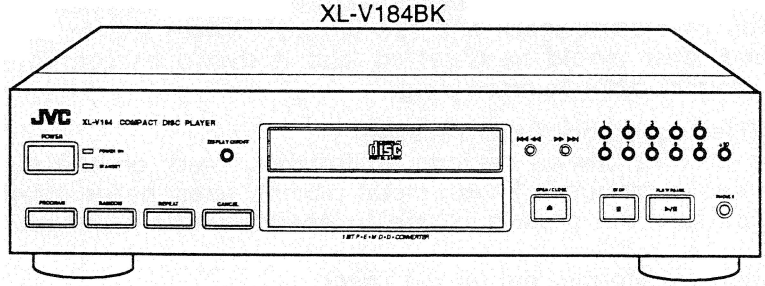
JVC

COMPACT DISK PLAYER

XL-V184BK
XL-V284BK

PICK UP	OPT-6S
LSI	MN662720RB

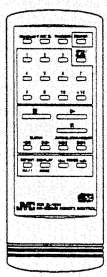
XL-V184BK

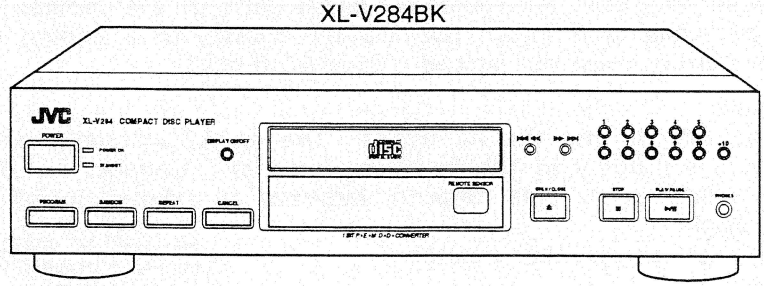


Area Suffix

BS .... the U.K.
E ..... Continental Europe
G ..... Germany
VX .... East Europe
UT .... Taiwan
U ..... Other Area

XL-V284BK





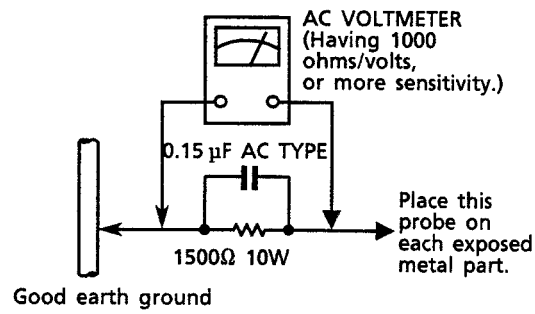
COMPACT disc DIGITAL AUDIO

COMPU LINK Remote Control Component

No. 20503
Feb. 1995

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10 W resistor paralleled by a 0.15 µF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor.
     Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Important for Laser Products

1. CLASS 1 LASER PRODUCT
2. DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.
4. CAUTION : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION : If safety switches malfunction, the laser is able to function.
6. CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

VARNING : Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstråling ved åpning, når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

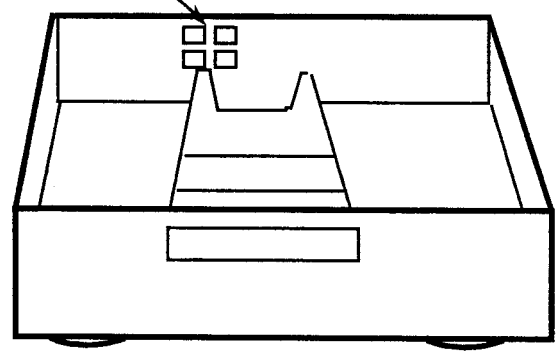
(Except for the U. S. A.)

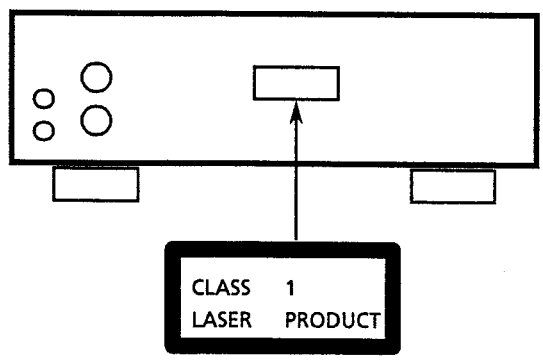
DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING: Osynling laserstråling när denna del å öppnad och spärren är urkoppled. Betrakta ej stålen. (s)

ADVARSEL: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude at funktion. Undgåudsættelse for stråling. (d)

VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)





CLASSIFICATION LABEL

(Except for the U. S. A. and Canada)

INTRODUCTION

Precautions

Load compact disc only
Never insert anything other than a compact disc into any part of the player.

If a problem persists
If something goes wrong, turn off the power immediately. If the same problem reoccurs when the power is turned on once more, turn off the power again and consult your JVC dealer.

Handling the power cord
When unplugging from the wall socket, always pull the plug body, never the power cable.

Volume settings
A CD player has almost zero background noise. Because of this, the technique of listening to the background level and then setting the volume before the music starts, as used with analog turntables or tape decks, cannot be used. If you raise the volume level too high, speaker damage may result.

Condensation
The CD player uses optical components. If it is moved from a cold location to a warm one, or is used in a room subject to excessive humidity or where a fire has just been lit, condensation could form on the optical components.
This may prevent the laser beam from being properly transmitted and thus causes noise or even a malfunction.
If condensation has formed and the CD player does not function correctly, we recommend that you leave it turned on for an hour or two. If at the end of this time the CD player still does not function properly, please consult your JVC dealer.

Transporting the unit
When carrying this unit, it is best to avoid either tilting it or turning it upside-down. Where you cannot avoid doing so, please remove the disc first.

Using compact discs
Compact discs are made of plastic and can be easily damaged. If the disc is dirty, scratched, warped or otherwise damaged, the digital information may not be picked up correctly.

Applicable discs
This unit can only be used with compact discs bearing the mark below. Never use discs of other types.

COMPACT disc DIGITAL AUDIO

About this manual

This manual covers the operating instructions for the compact disc player XL-V184BK and XL-V284BK.
There are several functions which require separate instructions for each model. Please check the model number stated on the carton box, and follow the descriptions applicable to your unit.

This manual is organized as follows:

The first part, "INTRODUCTION", gives you the precautions when using this unit, and shows you the names of buttons on the main unit and the remote control unit.

The second part, "BEFORE USING FOR THE FIRST TIME", tells you what kind of operations you should do before playing a disc. This part describes where to place the unit for best results, how to install batteries in the remote control unit and how to connect this unit to the amplifier/receiver and other components.

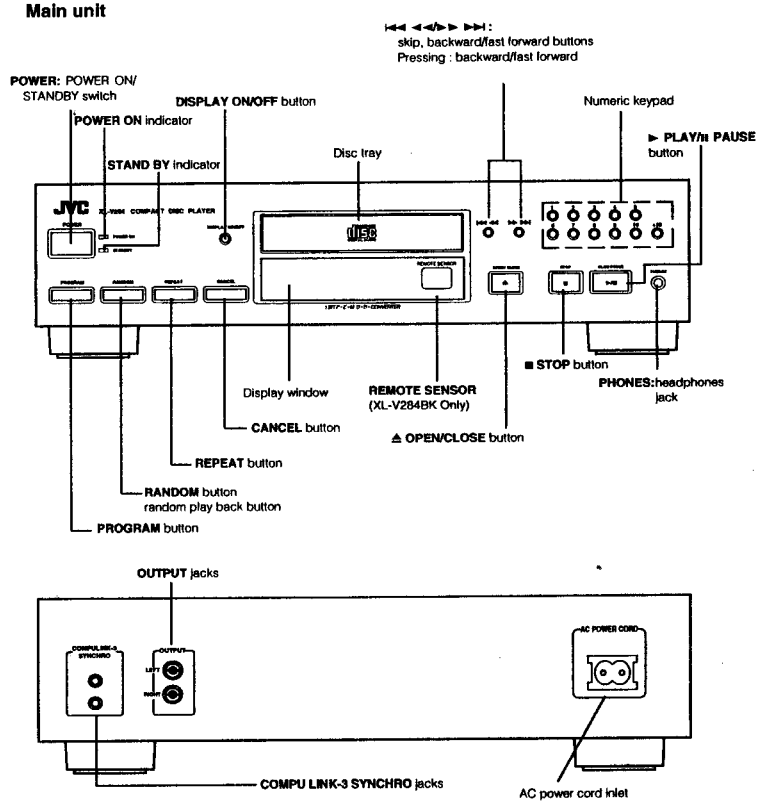
The third part, "BASIC OPERATIONS", describes how to load a disc, and convenient basic functions for playing disc.

The fourth part, "VARIOUS PLAYBACK PATTERNS", describes various functions for playing disc, and convenient functions for recording.

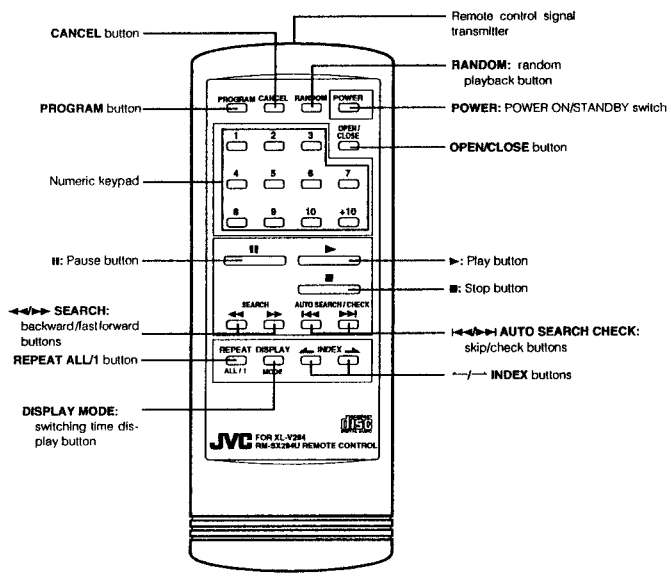
The fifth part, "GENERAL INFORMATIONS", describes the COMPU LINK remote control system which facilitates various operations between JVC components, and explains how to take care of discs.
This part also includes "Troubleshooting" which tells you how to check the unit when a malfunction occurs, and the technical informations regarding this unit.

Names of buttons

Main unit



Remote control unit (XL-V284BK only)



BEFORE USING FOR THE FIRST TIME

Installing the unit

Best location
Select a location which is level, dry and neither too cold nor too hot (temperature range 5°C (41°F) to 35°C (95°F)). Also, avoid dusty locations or any location subject to vibration.

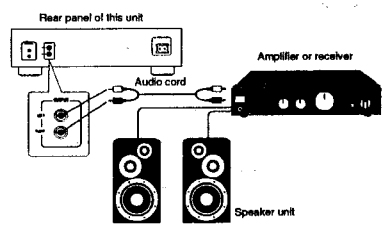
If interference occurs
If this equipment is placed near a tuner or a radio receiver tuned to AM frequencies, interference may occur. If this happens, we recommend either that you move this unit as far away as possible from the tuner or receiver or briefly turn off the power to this unit.

Connecting to other equipments

Connecting to an amplifier or receiver allows you to listen to the sound from the speakers.
Connect the OUTPUT jacks of this unit to the line input jacks of an amplifier or receiver with the supplied audio cord.

Notes

- *Never connect the OUTPUT jacks to the PHONO jacks of the amplifier or receiver. This may cause damage to the components.*
- *Make sure that the same channels are connected between this unit and the amplifier or receiver: LEFT to LEFT and RIGHT to RIGHT.*
- *Do not connect the power plug until all connections are complete.*
- *Connect the plugs firmly. Loose connections may cause noise or malfunction.*



(No. 20503) 1-5

XL-V184BK
XL-V284BK

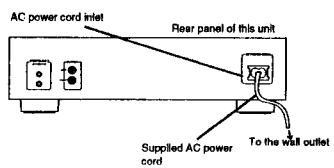
Supplying the power

To connect the AC power cord of the main unit

The AC power cord is supplied separately and must be connected to the unit.
Plug the AC power cord into the AC POWER CORD inlet of this unit and connect to the wall outlet after all connections are complete.

Note

When using the COMPU LINK Remote Control System, do not connect the power cord to the SWITCHED AC OUTLET of an amplifier or receiver.



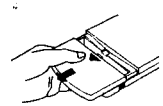
Installing the batteries

(XL-V284BK Only)

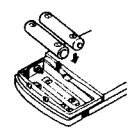
To install the batteries in the remote control unit

Before operating the remote control unit, install two batteries.

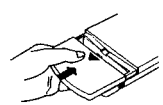
1. **Remove the rear cover of the remote control unit by pressing down and simultaneously pulling it backwards.**



2. **Install batteries. Be sure that the batteries are installed with correct polarity, (+) and (–).**



3. **Attach the rear cover by sliding it back into position.**



Notes

Incorrect use of batteries can cause corrosion or damage. Note the following points to lengthen battery life.

- *Install batteries observing the correct polarity, (+) and (–).*
- *Do not use new and old batteries simultaneously.*
- *Batteries with similar shapes may have different voltage ratings. Be sure to use the correct batteries.*
- *Remove batteries from the remote control unit if it will not be used for a long period of time.*
- *Do not expose batteries to heat or flame.*

Battery replacement

Service life of batteries depends on the condition of use; standard life is about one year. When the batteries become weak, the operating distance of the remote control unit becomes short. If this happens, replace the batteries (1.5 V, UM-4/R03/AAA) with new ones.

Note

- *The lower the temperature, the shorter the battery life.*

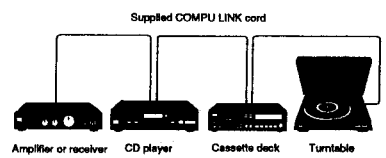
COMPU LINK connection

JVC's COMPU LINK Remote Control System provides unified control over system components connected with COMPU LINK. Connecting JVC audio components with the COMPU LINK jacks automatically controls relative operations between components and facilitates various operations. With the COMPU LINK connection to an amplifier or receiver, you can operate XL-V184BK/XL-V284BK with the amplifier or receiver's remote control unit. Synchronized recording is also available with this feature.

Connecting the COMPU LINK cord

The COMPU LINK-3 SYNCHRO jacks are used to output and input the control signal for the COMPU LINK remote control system.
COMPU LINK-compatible products are provided with the jacks marked COMPU LINK-1, COMPU LINK-2 or COMPU LINK-3, referring to the COMPU LINK version. XL-V184BK/XL-V284BK is equipped with COMPU LINK-3. You can connect XL-V184BK/XL-V284BK also to a component with a lower COMPU LINK versions. But, in that case, only the lower versions' features will be available.
Plug the supplied COMPU LINK cord into the COMPU LINK-3 SYNCHRO jack on the rear panel of XL-V184BK/XL-V284BK. Plug the other end into the COMPU LINK jack of the other component. If there are two COMPU LINK jacks, plug it into either of them.

Connecting the COMPU LINK system components with the COMPU LINK cords

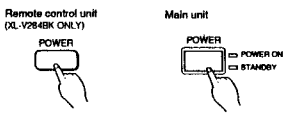


BASIC OPERATIONS

Basic functions for disc playback

Turning on the power of this unit

Press the POWER switch to turn on this unit. The POWER ON indicator is lit.



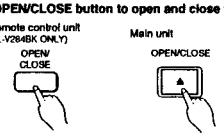
Press again to turn the power off and activate the standby mode. The STANDBY indicator is lit.

The power is automatically turned on also by;
- Pressing the ⏏ OPEN/CLOSE button.
- Pressing the ► button on the remote control unit or the ► PLAY/II PAUSE button on the main unit.

Notes
- *A small amount of power (3 watts) is consumed even in the standby mode.*
- *To turn the power off completely, disconnect the power cord from the wall outlet.*

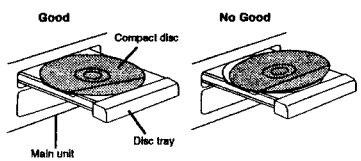
Loading a disc in the disc tray

Use the ⏏ OPEN/CLOSE button to open and close the disc tray.



1. **Open the disc tray by pressing the ⏏ OPEN/CLOSE button.**
2. **Place a disc on the disc tray according to the groove with its label side up.**
3. **Close the disc tray by pressing the ⏏ OPEN/CLOSE button.**

Note
- *When loading a disc in the disc tray, be sure to put the disc according to the groove. Otherwise, the disc will be damaged when the disc tray is closed, and the disc cannot be removed from the unit.*

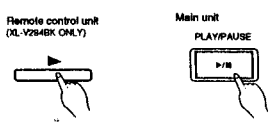


Remote control operation (XL-V284BK Only)

Point the remote control unit towards the REMOTE SENSOR and operate it steadily and carefully. The remote control unit can be used within a range of about 7 meters (23 feet) from the REMOTE SENSOR, and at angles of up to about 30 degrees.

Playing a disc

Press the ► button on the remote control unit or the ► PLAY/II PAUSE button on the main unit.

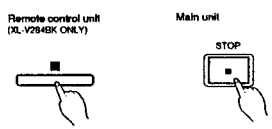


The ► indicator lights on the display and playback starts.
When no disc is loaded in the unit, the disc tray opens.

To stop playback temporarily, press the II button on the remote control unit or the ► PLAY/II PAUSE button on the main unit.
The II indicator lights on the display and playback stops temporarily.
To resume playback, press the ► button on the remote control unit or the ► PLAY/II PAUSE button on the main unit.

Stopping playback

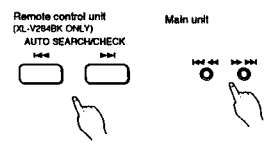
Press the ■ button.



Locating a point to start playback

Skipping to a desired track

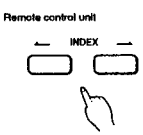
Use the I◄◄/►►I buttons.



To skip back to the beginning of the track being played, tap the I◄◄ button. When the beginning of the track is reached, tapping this button again skips to the previous track.
To skip to the next track, tap the ►►I button.
When using the I◄◄ ◄◄ / ►► ►►I buttons on the main unit, tap them until the desired track appears.

Skipping to a desired index (XL-V284BK Only) (for a disc marked with IN:DEX)

Use the ←/→ INDEX buttons.



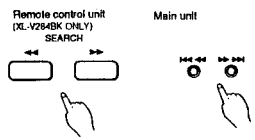
To skip back to the beginning of the index being played, tap the ← INDEX button. When the beginning of the index is reached, tapping this button again skips to the previous index.
To skip to the next index, tap the → INDEX button.

(No. 20503) 1-7

XL-V184BK
XL-V284BK

Searching for a desired section

Keep the ◄◄/►► SEARCH buttons on the remote control unit or the I◄◄ ◄◄/►► ►►I SEARCH buttons on the main unit pressed during playback.

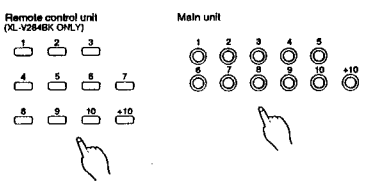


Playback advances or reverses rapidly.
While the ◄◄ or I◄◄ ◄◄ button is kept pressed, playback rapidly reverses toward the beginning of the track. While the ►► or ►► ►►I button is kept pressed, playback rapidly advances toward the end of the track. When the desired section is reached, release the button. The player resumes normal playback from that point.

Note
Two speeds are available for fast forward and fast backward. Pressing and holding the button provides the faster speed.

Specifying a desired track

To specify the desired track number, use the numeric keypad (1-10, +10).



The unit searches for the selected track and playback starts automatically.
When selecting track number 10 or less, press the corresponding numeric button. When selecting track number 11 or above, use the [+10] button.
Example: To select track number 12, press [+10] and then [2].
To select track number 25, press [+10] twice and then [5].
To select track number 30, press [+10] twice and then [10].

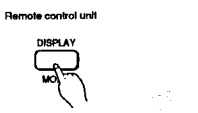
Note
The track number which does not exist on the selected disc, cannot be selected.

Switching the display

You can switch the time display mode to obtain informations about the playing time of the disc, and also turn on/off the display during playback.

Switching the time display (XL-V284BK Only)

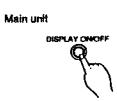
Each time the DISPLAY MODE button is pressed, the time display changes as the following.



The corresponding indicator lights in each time mode.
EACH: Shows the elapsed time of the track being played.
EACH REMAIN: Shows the remaining playback time of the track being played.
TOTAL: Shows the total playing time of the disc being played.
TOTAL REMAIN: Shows the remaining playback time of the disc being played.

Turning on/off the display during playback

Press the DISPLAY ON/OFF button during playback,the display is turned off.



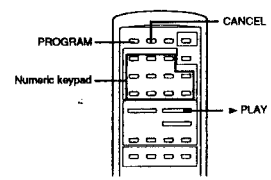
The display is automatically turned on when the unit enters in stop,pause,open,or search mode.
It is recommended to utilize this function, since the sound quality is improved by turning off the display.

To cancel the function and turn on the display, press the DISPLAY ON/OFF button again or press the ■ STOP button.

VARIOUS PLAYBACK PATTERNS

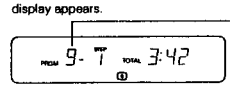
Playing tracks in a desired order

You can play only the favorite tracks in any desired order.



1. **In stop mode, press the PRAGRAM button so that "PRGM" lights on the display.**

2. **Select the track number with the numeric keypad.**
Refer to "Specifying a desired track" on page 9 for entering the track number.
The selected track number is programmed and the following display appears.



- If you want to cancel the displayed program step, press the CANCEL button and then enter the new track number.

3. **Repeat step 2 for other tracks to be programmed.**
You can program up to 32 tracks.

4. **Start playback by pressing the ► button.**
The programmed tracks are played in the programmed order.

- You can skip to a desired program step with the I◄◄ or ►►I button.
- You can add tracks in the program during the playback.

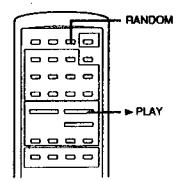
To check the program contents
Press the I◄◄ or ►►I button during stop mode. Each time the I◄◄ or ►►I button is pressed, the program contents are displayed in the programmed order or the reverse order.

To exit program mode
Press the PROGRAM button again, and the program mode is cancelled.

To clear the entire program
In stop mode, press the ■ STOP button on the main unit. The program contents will be cleared, however, the program mode is not canceled.

Playing tracks in a random order

You can select and play tracks in a random order. Selections are made so that each track in the disc is played only once.



1. **Press the RANDOM button so that the "RANDOM" indicator lights on the display.**

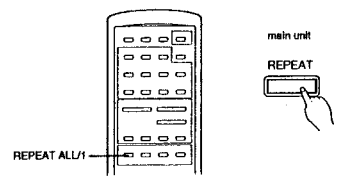
2. **Press the ► button and start playback.**

- To skip to the track to be played next, press the ►►I button.

To cancel random playback
In stop mode, press the RANDOM button . The "RANDOM" indicator goes out and the random playback is canceled.

Playing repeatedly

You can repeatedly play the whole disc or one track.
It is also possible to utilize this function in combination with random/program playback function.



Repeating whole disc

Press the REPEAT (ALL/1) button so that the REPEAT indicator lights on the display.

All tracks are played repeatedly.

Repeating one track

Press the REPEAT (ALL/1) button so that the REPEAT 1 indicator lights on the display.

The displayed track is played repeatedly.

To cancel repeat mode
Press the REPEAT (ALL/1) button so that the REPEAT and REPEAT 1 indicators go out.

GENERAL INFORMATIONS

COMPU LINK remote control system

The COMPU LINK Remote Control System controls relative operations between components automatically and facilitates various operations.

This is a system originated and developed by JVC for facilitating various system operations.
The following is a brief explanation of this system:

Automatic source selection
When the supplied COMPU LINK cord is utilized to connect this unit to others equipped with COMPU LINK jacks, switching-in of each system component can be performed with a single touch on the source selector button located on a JVC amplifier or receiver.
When selection is carried out in this manner, the corresponding unit will automatically start operation.
Upon pressing of the play button, the source selector of the amplifier or receiver changes automatically. When a new unit is switched in, the previously selected component stops operation within five seconds.

Synchronized recording
Synchronized recording refers to the process in which a JVC cassette deck starts recording, synchronized with this unit. Synchronized recording is carried out as follows:

1. Set the cassette deck to the recording pause mode in accordance with its instructions.
2. To record only certain tracks, program the tracks in any order, as desired.
3. Press the ► PLAY/II PAUSE button on the front panel of this unit. The cassette deck automatically starts recording, synchronized with this unit.

Notes

- *Synchronized recording stops automatically when this unit stops playback.*
- *To cancel synchronized recording, press the ■ STOP button of this unit or the cassette deck.*
- *To properly operate the synchronized recording, the buttons/controls other than POWER, ■ STOP and OPEN do not function.*
- *If the recording pause mode is set on the cassette deck by pressing the II PAUSE button after pressing the ● REC and ► PLAY buttons simultaneously, synchronized recording is not possible. For details, refer to the instructions for the cassette deck.*

Automatic power on/off function
This function is to control the power on/off of the receiver/amplifier or this unit respectively as the following.

- When this unit enters playback mode, the power of the receiver or amplifier is turned on.
- When the source selector of the receiver/amplifier is set to CD function mode, the power of this unit is turned on.

Notes

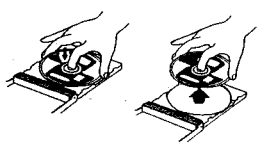
- *Abnormal operation may result if the power supply of the component(s) is interrupted. If this happens, you must start over again.*
- *Ensure that the COMPU LINK jacks of the each component are connected with the supplied COMPU LINK cord. Also, be sure to fully read the instructions for each component.*
- *When the power of the amplifier or receiver is switched off, this unit is also turned off automatically.*

(No. 20503) 1-9

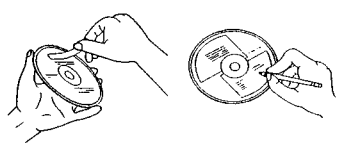
XL-V184BK
XL-V284BK

Care and handling

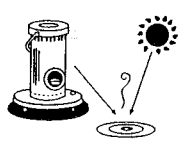
How to handle CDs
When handling compact discs, do not touch the surface of the disc (reflective silver side - the side without the label).
Since compact discs are made of plastic, they are easily damaged. If the disc gets dirty, dusty, scratched or warped, the sound will not be picked up correctly and, in addition, such discs may cause the CD player to malfunction.



Even on label side
Do not damage the label side, stick paper to or use any adhesive on this surface.



Storage
Make sure that discs are kept in their cases. If discs are piled one on top of another without their protective cases, they can be damaged. Do not put discs in any location where they can be exposed to direct sunlight - or in any place where humidity or temperature is high. Avoid leaving discs in your car!



Maintenance of discs
When there are fingerprints or other dirt adhering to a disc, wipe the disc with a soft, dry cloth with a movement going from the inside outwards.
If difficult to clean, wipe the disc with a cloth moistened with water.
Never use record cleaners, petrol, alcohol or any anti-static agents.

Troubleshooting

What appears to be a malfunction may not always be serious. Please go through the following list before requesting service.

Symptom	Possible cause	Remedy
The unit is not operative.	Power plug is disconnected from the AC outlet.	Connect the plug to an AC outlet.
	Disc is not loaded.	Load a disc in the disc tray.
The remote control unit does not function. (XL-V284BK only)	Batteries are exhausted.	Replace both batteries.
	There is an obstacle between remote control unit and the REMOTE SENSOR of the main unit.	Remove the obstacle.
	Direct sunlight shines on the REMOTE SENSOR of the main unit.	Shade the unit from the direct sunlight.
Playback is not possible.	Disc is inserted upside down.	Load a disc with its label-side up in the disc tray.
	Disc is not loaded in the correct position.	Load the disc according to the groove of the disc tray.
	Moisture is condensed inside the unit.	Leave the unit turned on until the moisture evaporates.
The reproduced sound includes noise.	Disc is dirty.	Wipe off the disc surface with a soft cloth.
	Disc is warped.	Replace the disc with a new one.
The sound is intermittent.	Disc is scratched.	Replace the disc with a new one.

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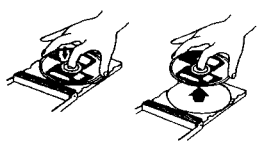

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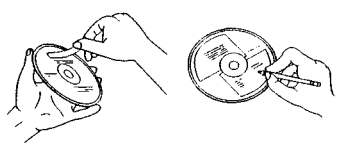

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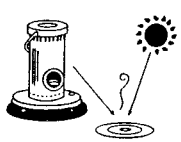

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